

094511.03401
10420 FT 54360

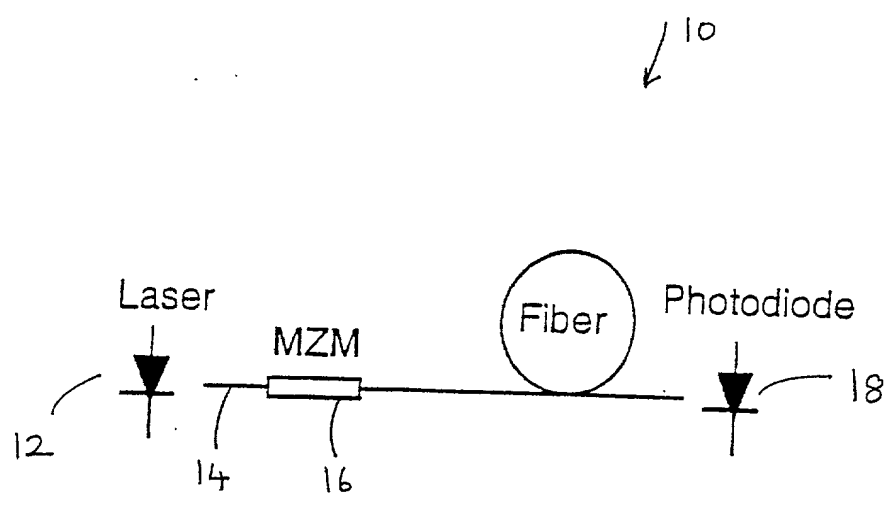


FIG. 1

094411 072401
T04220 TT54360

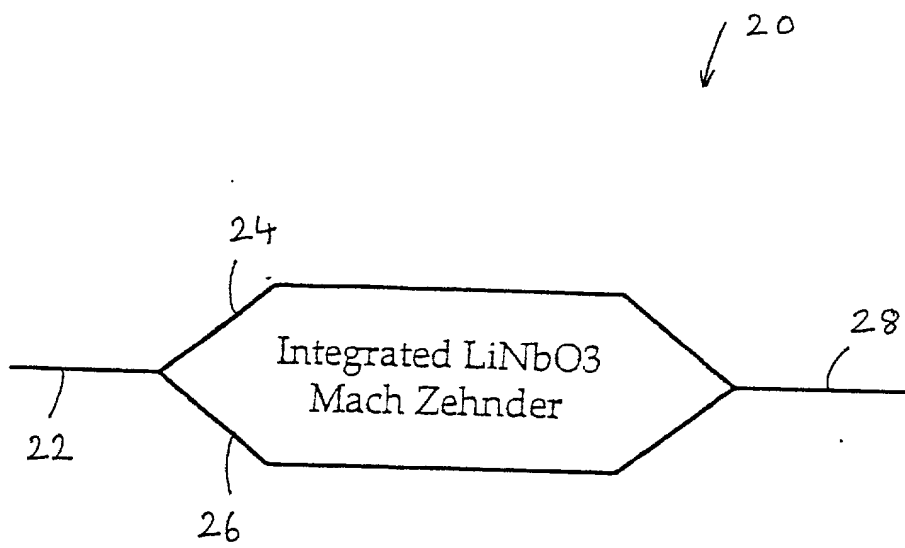


FIG. 2

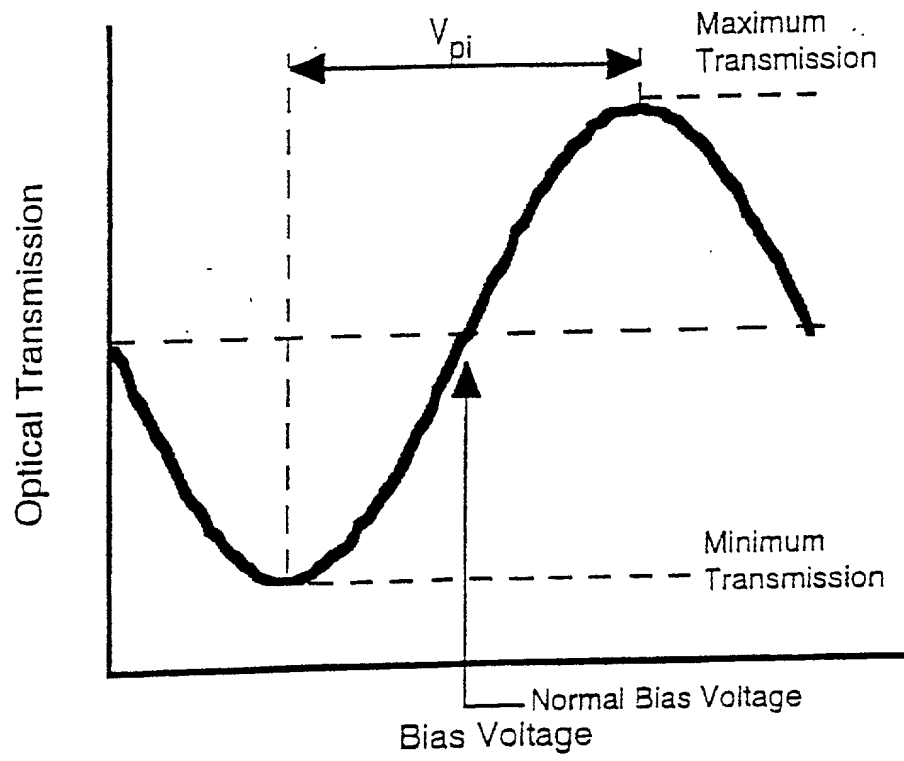


FIG. 3

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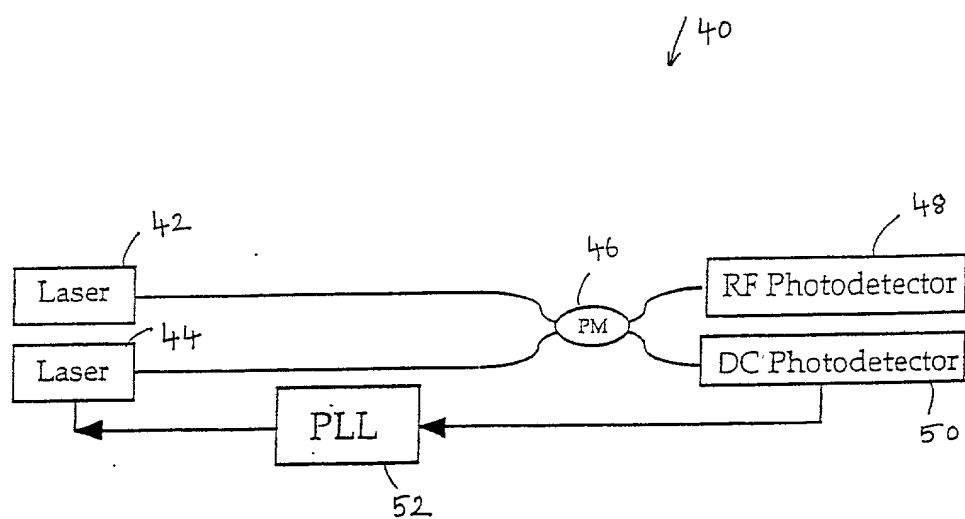


FIG. 4

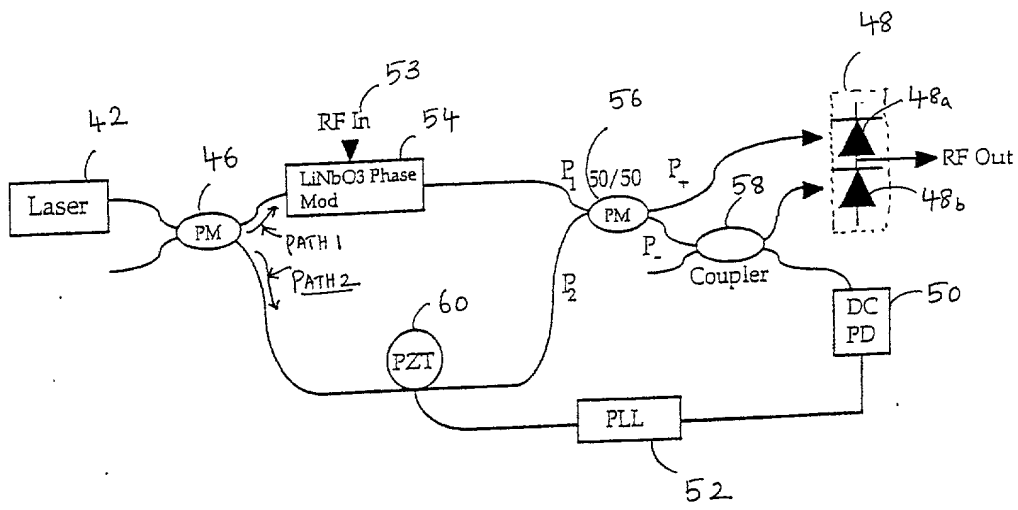


FIG. 5

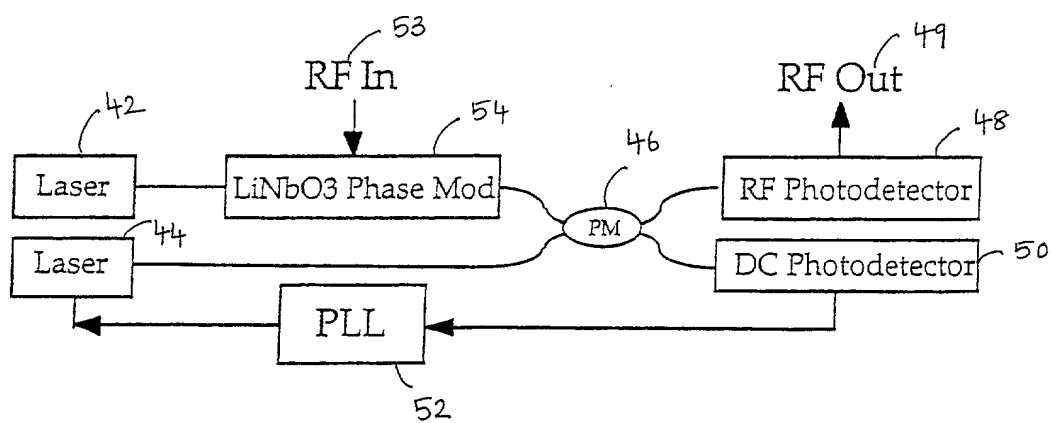


FIG. 6

104220" F154860

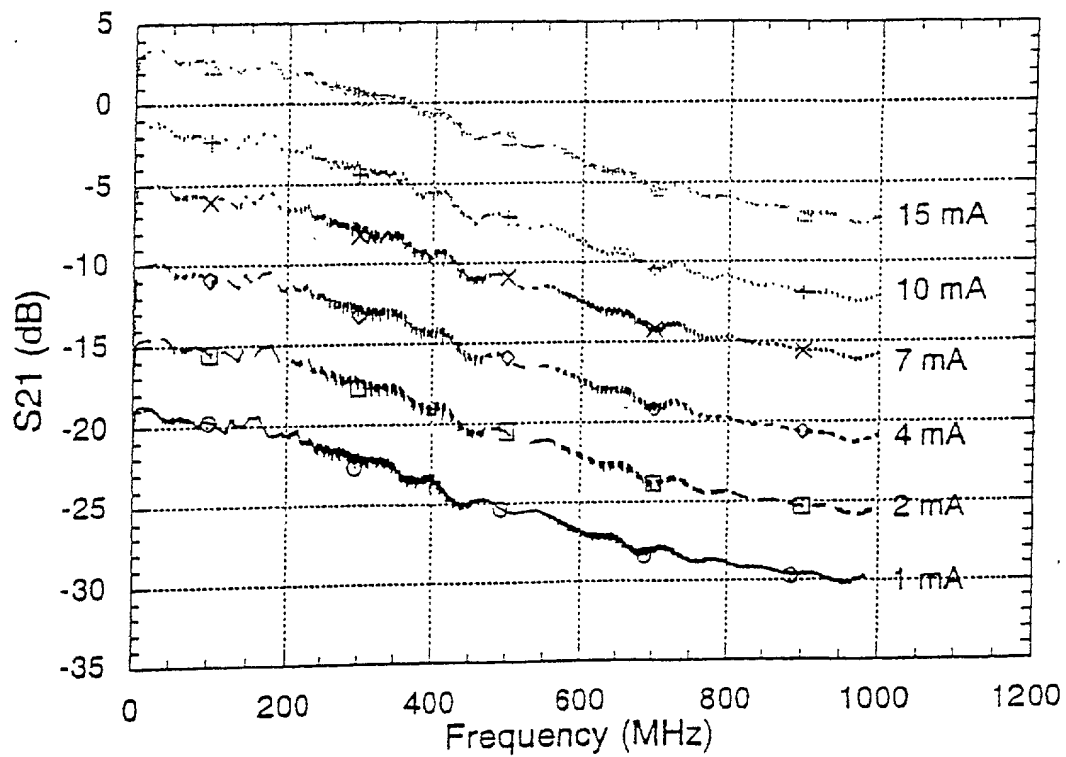


FIG. 7

09345111.072401

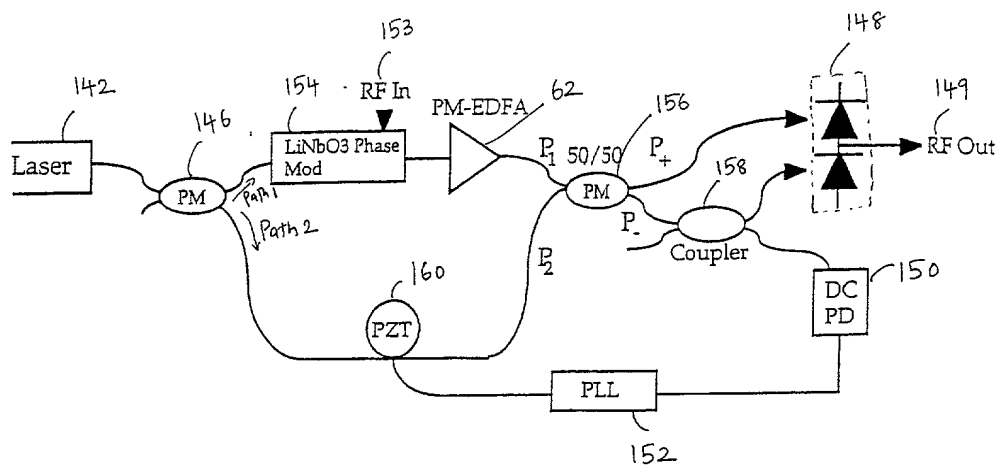


FIG. 8

The diagram illustrates a PLL-based RF signal processing system. It begins with a **Laser** (242) connected to a **PM** (246). The output of the PM (246) is split into two paths. One path goes to a **LiNbO₃ Phase Mod** (253), which receives an **RF In** signal. The other path goes to a **LiNbO₃ FM** (64), which receives an **RF In** signal (66). The output of the LiNbO₃ FM (64) is connected to a **PZT** (260). The output of the LiNbO₃ Phase Mod (253) is connected to a **PM-EDFA** (262). The output of the PM-EDFA (262) is connected to a **50/50 PM** (256). The output of the 50/50 PM (256) is split into two paths: **P₊** and **P₋**. The **P₊** path is connected to a **Coupler** (258). The **P₋** path is connected to a **DC PD** (250). The output of the DC PD (250) is connected to a **PLL** (252). The output of the PLL (252) is connected to the **PZT** (260). The output of the Coupler (258) is connected to a **RF Out** (249) through a **248** component.

FIG. 9